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SECTION 01 35 25 – OWNER SAFETY REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.

B. Specifications throughout all Divisions of the Project Manual are directly applicable to this Section, and this Section is directly applicable to them.

C. For projects enrolled under the Owner Controlled Insurance Program (OCIP), this Section supplements Section 01 35 23 Project Safety Requirements, with additional Owner requirements for work within existing facilities or for work in areas controlled by the Owner.

1.2 SUMMARY

A. The control of Project Safety by the Contractor is an essential element of performing work at The University of Texas MD Anderson Cancer Center (MD Anderson). The Contractor shall, at all times, provide adequate resources, equipment, training, and documentation to assure a safe work environment at the Project site and to instill a culture for safety in the behavior of all supervisors and workers. Every worker shall understand that safety and health issues always take precedence over all other considerations, and that identifying, reporting, and correcting unsafe acts and conditions are the responsibility of everyone at the Project site.

B. MD Anderson is dedicated to providing a safe healing and work environment for all patients, visitors, staff, students, guests, and Contractors.

C. The details of this document should be considered as supplemental requirements. The Contractor shall develop, implement, maintain, and submit to the Owner a written Project Safety Program that meets or exceeds all Federal, State, and Local standards and regulations pertaining to construction activities. The Contractor and every Subcontractor shall comply with the rules and guidelines outlined in this guideline. In any circumstances where this section differs with or conflicts with any standard or statutory requirement, the more stringent requirement shall apply. Contractors may use a company-wide safety program in lieu of the Project specific safety program as long as it meets or exceeds the requirements listed in these guidelines.

D. The Owner reserves the right to have any manager, supervisor or worker employed by the Contractor or Subcontractor removed from the Project for disregard of Project Safety requirements.

E. The Owner reserves the right to deduct from the Contract any safety related expenses that the Owner incurs, as a result of the Contractor's, or any Subcontractor's, disregard for Project safety.

1.3 REFERENCE STANDARDS

A. The latest published edition of a reference shall be applicable to this Project unless identified by a specific edition date.

B. All reference amendments adopted prior to the effective date of this Contract shall be applicable to this Project.
1.4 DEFINITIONS

A. The term "Owner’s Designated Representative" or "MD Anderson Representative", as used throughout the document, shall refer any of the Owner's Project management team, insurance carrier representative(s), Owner’s designated agent, or campus representative(s).

B. The term “Contractor” as used throughout the contract documents shall refer to the party having a direct contractual agreement with the owner to provide services. This term is to apply whether contractor is known as a prime contractor, general contractor, construction manager, or design/build contractor.

C. The term “subcontractor” as used throughout the contract documents shall refer to any on-site subcontractor, regardless of tier.

1.5 EMERGENCY / IMPORTANT CONTACT INFORMATION

A. Consult with your MD Anderson representative regarding the correct emergency contact information for the facility in which you are working. Each facility may have a different emergency call procedure.

PART 2 - PRODUCTS

2.1 GENERAL

A. All materials shall meet or exceed all applicable referenced standards, federal, state and local requirements, and conform to codes and ordinances of authorities having jurisdiction.

PART 3 - EXECUTION

3.1 ASBESTOS CONTAINING MATERIAL

A. Environmental Health Safety & Corporate Services (EHSCS) must review all Job sites prior to the start of a Project to determine the presence of Asbestos Containing Material (ACM).

B. All suspect materials shall be considered asbestos-containing material until identified otherwise by an EPA approved method of analysis for identifying asbestos-containing material.

C. Any contractor personnel needing to disturb any suspected asbestos containing building materials shall first contact their MD Anderson representative. It is then the responsibility of the MD Anderson representative to contact EHSCS to determine if there is any asbestos containing materials present.

D. Contract personnel coming into contact with known or suspected asbestos containing materials (ACM) will:
   1. Avoid any physical contact or other actions that may damage or otherwise disturb the material.
   2. Submit all requests for sampling suspected asbestos containing materials through your MD Anderson representative. If the material has not been previously identified as containing asbestos, EHSCS personnel will sample the materials, obtain analysis, and report results to the requestor.

3.2 BLOODBORNE PATHOGENS

A. Contractors shall instruct their employees in the concept of standard precautions and document training in accordance with OHSA 29 CFR Section 1910.1030.

B. The contractor must take every effort to prevent exposure to blood and/or body fluids while in the hospital.
C. Patient care and research areas are considered to have the potential for exposure and special instructions may be given by the nursing or research staff on how to avoid potential contamination. Contact your MD Anderson Representative to determine if an exposure potential exists for all areas in which you will be working.

D. Contractors shall not handle bags or containers identified as containing potentially infectious materials. Contractors may contact EHSCS at 713-792-2888 for additional questions.

E. For Smithville / Bastrop, contractors may contact EHSCS with additional questions at:
   1. Smithville Office Phone: 512-237-9522; 9536
   2. Bastrop Office Phone: 512-332-5232

3.3 CELLULAR PHONE AND RADIO USE

A. The use of the following devices in PMA locations should be used with caution (beyond six feet of physiological monitoring systems):
   1. Cellular Phones
   2. Computers with wireless capabilities
   3. Two-way pagers
   4. Wireless handheld devices

B. Definitions:
   1. Cellular Phone – Telephone that uses a frequency range of 800 - 1910 MHz to transmit voice and data to a remote cell and up to 625mW of power.
   2. Close Proximity - within twenty (20) feet for two-way radios and within three (3) feet for cell phones and others of a physiological monitoring system.
   3. Non PMA Area - an area of M.D. Anderson facility outside of the defined PMA areas.
   4. Physiological monitoring area (PMA)- An area of M.D. Anderson facility where patients are likely to require the use of a physiological monitoring (e.g., Electrocardiograph, electroencephalographs, pulse oximetry, cardiac output, invasive pressure, etc.) for care or treatment.
   5. PMA Locations: Bone Marrow Unit (G11), Cardiac Unit (P12), Cardio-Pulmonary Clinic (R8), Diagnostic Imaging (G3, R3, B3, ACB4-ACB7), Emergency Center (R1, P1, P2), Endoscopy Clinic (R5), Intensive Care Unit (G7), Operating Rooms (G5, ACB4), Pediatric Unit (G9, R7), Post Anesthesia Care Unit (G3, G5, ACB4, P3 Pod B), Rehab and Patient Therapy (P8), and the Telemetry Unit (P7).
   6. Wireless Communication Devices - Cellular telephones and two way radios are the only devices currently defined as having caused interference to medical devices.
   7. Two Way Radios – "Walkie-talkies" which use a frequency range of 29 - 1000 MHz to transmit voice between two locations up to 5 watts of power.
   8. Wireless Handheld Devices – Commonly known as PDA (Personal Digital Assistant). Devices that provide a range of personal information management, voice communication, data communication, and computing capabilities, that relies on wireless technology to transfer or retrieve data. May include Palm Pilot, Pocket PC, Blackberry, Smartphone, or similar devices with operating frequency of 800 to 1900 MHz.
3.4 CONDUCT

A. The use or consumption of alcoholic beverages or controlled substances is strictly forbidden on any Institution owned or controlled property.

B. Contractor shall not permit any person to operate a motor vehicle or heavy equipment while taking prescription or non-prescription medication that may impair their ability to operate safely.

C. MD Anderson is a NO SMOKING Institution. No smoking or use of tobacco products is allowed on any Institutional property. There are no designated smoking areas. Anyone found smoking will be immediately removed from the jobsite.

D. Contractor personnel shall be courteous to all tenants, business invitees, patients, visitors, and employees.

E. Unacceptable behavior on the part of the workers anywhere on campus, including parking lots, the project site, the accessible route(s) through the site or through the campus may lead to the identifiable contractors being removed from the project.

F. Personal grooming, personal hygiene and language by contractors must be constructed in a professional manner at all times. Use of foul and off-color language will not be tolerated and can result in contractor removal from jobsite.

G. Shirts must have sleeves of at least 3 inches, measured from the armpit seam. All buttoned shirts must be buttoned to at least the third button from the top. T-shirt styles may be approved if they are part of a company uniform or contain no political or offensive language or images. For additional guidance, see Section 3.26 Personal Protective Equipment.

H. Pants that are excessively loose, torn, ragged or with dragging cuffs will not be permitted. Shorts are not allowed.

I. No clothing, accessories, or hardhat stickers that display offensive, derogatory or inflammatory wording or graphics shall be worn on any institution owned or controlled property.

J. All clothing must be in good repair and free of any large holes or major damage. All clothing must be clean and sanitary at the start of each work shift and periodically cleaned to prevent tracking dust and debris out of the construction area.

K. Workers clothing must be clean of visible dusts and dirt when outside of the project site.

L. No radios or music shall be allowed on the project including headphone systems. Personnel must be able to hear alarms and warnings in the immediate area. (This does not pertain to the use of two-way hand held communication equipment or phones).

M. No tools or equipment will be loaned by owner to contractors to assist them in completing projects.

N. Contractor personnel shall not tape back lock/latch mechanisms nor prop open any exterior door, security door, stairwell door, or fire/smoke door. Personnel may not disconnect any electronic security device or defeat lock systems.

3.5 CONFINED SPACES

A. MD Anderson does not provide any confined space entry support such as sampling, entry permits, rescue personnel, rescue equipment, etc., for contractor personnel.
B. Contractors are responsible for ensuring all of their employees are trained on the recognition and significance of confined space entry procedures in accordance with 29 CFR 1910.146.

C. It will be the responsibility of the contractor performing the work inside the confined space to provide the necessary equipment to assess the hazards within the space and prepare the space for entry and to meet the precautions of the entry permit.

D. Contractor shall provide all emergency rescue equipment and personnel as required by 29 CFR 1910.146, as applicable.

E. The contractor conducting the work inside a permit-required confined space shall follow, at a minimum, all applicable OSHA requirements.

3.6 CONSTRUCTION SAFETY SITE INSPECTIONS

A. All construction sites will be subject to periodic inspections by EHSCS representatives. The inspector(s) will be looking for life safety, environmental, construction safety, and indoor air quality deficiencies. Once noted, the inspector will notify the MD Anderson representative responsible for the site. The inspector may also notify the contractor representative on site.

B. All noted deficiencies shall be immediately corrected. Contractor shall provide a response to the EHSCS safety inspector within 3 business days of the original safety report.

C. The inspector will be enforcing IAQ measures found in the “Maintaining Indoor Air Quality During Construction and Renovation” policy / procedures and other requirements set forth in the MD Anderson construction specifications for that project. (See Attachment A).

D. A job or activity will be suspended if an imminent danger to patients, animals, visitors, employees, Contractor personnel or facilities is observed.

3.7 CONTRACTOR DAILY SIGN-IN AND WORK NOTIFICATION - HOUSTON

A. Contractors must follow any specific check-in procedures for the facilities in which they will be working. Your MD Anderson representative will inform you of these procedures.

B. All Contractors/vendors must wear an MD Anderson-issued ID badge at all times while on property owned or under the control of the Institution. Badge must be worn and be visible at all times. Contact your MD Anderson Representative for assistance in obtaining an ID badge.

3.8 CONTRACTOR DAILY SIGN-IN AND WORK NOTIFICATION – SMITHVILLE / BASTROP

A. Contractors/Vendors hired by the Facilities Management Division must register their activities with Facilities Management before commencing work.

B. Contractors coordinate with Project Managers for access to the campus. Contractors must submit a construction schedule to Physical Plant Management.

C. Physical Plant informs Facilities Management of contractors schedule as well as the badge numbers issued to that contractor. Facilities Management will issue badges to contractor for their use while on the property. Contractors are responsible for distributing the badges as needed.

D. Contractor/vendor registration is performed in the Physical Plant Building.

E. All Contractors/vendors must wear an MD Anderson-issued ID badge at all times while on property owned or under the control of the Institution.

F. Contractors/vendors who fail to register with Physical Plant Management are subject to removal from the property by the UT Police.
3.9 CONTRACTOR INJURIES AND INCIDENTS

A. Contractors shall make prior provisions for the treatment of minor injuries.

B. Contractor is responsible for cleaning up all blood and body fluids and debris from accidents.

C. Contractor employees requiring immediate medical treatment should be taken to the emergency room of a local hospital. MD Anderson does not provide medical treatment to Contractors engaged in projects.

D. If an injured worker cannot be moved and assistance is needed, contact the Houston or local Fire Department (911) for an ambulance.

E. An injury requiring treatment beyond minor Job Site First Aid, shall be reported immediately to your MD Anderson Representative or Designee and Monitoring Services 713-792-2888 (All Houston Locations) and UTPD Smithville/Bastrop at 512-332-5371 or 512-237-9411.

F. A copy of the incident / accident report must be provided in a timely manner to your MD Anderson Representative. A preliminary report must be made within 24 hours of the end of the next working day.

G. All incidents that result in property damage must be reported to your MD Anderson Representative.

3.10 CONTRACTOR SAFETY ORIENTATION

A. All Contractor personnel are required to complete the MD Anderson Construction Safety and Infection Control Orientation Training given by the EHSCS Office before beginning work at the Institution. Videos can be requested through the EHSCS department or your MD Anderson Representative and are available in both English and Spanish.

B. Completion of orientation is required to obtain an MD Anderson hardhat sticker.

C. The Contractor may be required to attend orientation again for refresher, and review any changes if deemed necessary by the Owner.

D. The Contractor’s MD Anderson Representative must contact the EHSCS office to make arrangements for the orientation session.

E. It is the responsibility of the Contractor to ensure that the information given in the orientation session is understood by all workers (i.e., Spanish or other language translation).

3.11 ELECTRICAL SAFETY

A. Refer to Section 3.24 on Lock Out / Tag Out requirements.

B. All electrical power tools, equipment and extension cords shall be inspected daily before use. Defective items shall be immediately removed from service for repair or replacement.

C. NOTICE: RED OUTLETS are for power requirements provided by the Emergency Generator System and shall NOT be used by Contractor personnel.

D. Ground Fault Circuit Interrupters (GFCI’s) shall be in use between any permanent receptacle and any Contractor equipment.

E. Temporary power panels shall have GFCI protected circuits built into the panel.

F. The GFCI shall be tested for function before plugging in any Contractor equipment.
G. Electrical power tools shall be grounded, or double insulated, or battery powered. The cord on the tool must be free of defects.

H. Battery powered portable hand tool battery charging stations are not to be plugged into hallway or exit stair outlets or other areas so as not to create a trip hazard.

I. Extension cord sets shall be the “heavy duty” three-wire grounded type (14 gauge or larger), and must be rated for the particular application in which it is to be used.

J. Three-wire flat type extension cords are NOT permitted.

K. Defective cord ends must be replaced with a UL rated repair end; Contractor must follow the manufacturer instructions for repair installation.

L. Damage to the cord jacket shall not be taped over and must be repaired per manufacturer’s recommendations.

M. Extension cords shall be routed overhead whenever possible or otherwise protected against damage or tripping hazard by being securely taped to the floor or secured by other acceptable means and approved by the MD Anderson representative.

N. Running/hanging extension cords through ceiling spaces is not permitted. Special permission from EHSCS is required for any variation from this requirement.

O. Extension cords must be used as designed by the manufacturer. Avoid using extension cords in a manner to cause damage to the electrical system or cause personal injury.

P. All electrical shutdowns and electrical “taps” must be coordinated through the Project Manager or MD Anderson representative for that project.

Q. Contractors are absolutely not allowed to turn on/off any electrical source breakers or switches without permission from the respective MD Anderson Facilities Management representative for that building/space. This should be accomplished through a Utility Shutdown Request submitted by the Project Manager or MD Anderson representative.

R. Existing and new electrical equipment must be protected at all times from humidity, liquid material splashes, activities inducing to vapor formation and condensation.

S. No liquid materials shall be handled in electrical rooms, electrical equipment areas or areas adjacent to electrical equipment locations.

T. In the event that the contractor must handle liquid materials in the vicinity of electrical equipment locations, the contractor must inform the owner and seek written approval, prior to bringing those liquid materials to the above-mentioned locations.

3.12 EXCAVATIONS

A. All excavation shall have the following prerequisites:

1. Discussion with the appropriate MD Anderson representative or site owner/property manager of as-built locations of all underground utilities in the vicinity;

2. Where applicable, a phone call for utility “locates” shall be completed seventy-two (72) hours in advance. “Potholing” and hand excavation shall be required within three horizontal feet of “located” centerlines.

3. All excavations must follow the applicable OSHA guidelines and requirements as related to design and protection of excavations.

4. All trench excavations should be backfilled or plated at the end of each shift.
5. When an excavation cannot be backfilled or plated in the same day it is created, a highly visible hard and sturdy barricade such as a wooden fence or wooden railings shall be erected. Excavation protections in areas of traffic must comply with local, state, or federal safety standards.

6. Means of access into excavations shall be removed or physically barricaded at the end of each workday.

7. Excavations in areas of public access shall be secured with a temporary "hard" barricade such as solid fencing or wooden railings to prevent entry. These excavations and protection plans must be approved by the EHSCS office.

B. Where applicable, all required engineer stamped excavation plans must be readily available at all excavations for review by MD Anderson representative(s). Certificates of soil testing shall also be made available.

3.13 FALL PROTECTION AND PREVENTION

A. Work in areas not protected by a standard guardrail system or present a fall hazard greater than six (6) feet shall require compliance with all current applicable OSHA Fall Protection requirements and/or ANSI/WCA I-14.1 Window Cleaning Safety Standard.

B. The Contractor shall ensure that all workers exposed to fall hazards have been properly trained and equipped by their employer.

C. No worker or equipment shall be allowed to perform work directly above another worker unless adequate overhead protection is provided.

D. Covers or fencing of sufficient design shall be placed over holes, roof and floor openings or drop-offs to prevent personnel or equipment from penetrating the opening. Floor openings shall be protected to maintain the required fire resistance rating.

E. Covers or fencing shall be physically secured and clearly marked with warning message, such as “Danger”, “Hole”, or “Cover! Do Not Remove”.

F. If a cover is too small for a warning message, it shall be painted bright orange or red.

G. All puncture and impalement exposures shall be covered or eliminated as soon as they are created. Exposed ends of rebar are to be covered with material that is designed to prevent impalement of a 250-pound body from a fall of four (4) feet.

3.14 FIRE PREVENTION

A. All combustible materials shall only be stored in approved areas as designated by the MD Anderson representative.

B. MD Anderson is a NO SMOKING facility. No smoking or use of tobacco products is allowed on any Institutional property. There are no designated smoking areas. Anyone found smoking will be immediately removed from the jobsite.

C. Contractor shall coordinate the covering and uncovering of smoke detectors with Owner’s EHSCS Department (713-792-2888) prior to starting work or upon discovery of such devices as work progresses. Covering smoke detectors with tape, rubber gloves, or any other method that can agitate or damage a detector is prohibited.
E. For large or high dust generating projects, the contractor shall coordinate with their Project Manager or MD Anderson representative to arrange for the replacement of smoke detectors with heat detectors. EHSCS must approve all changes to any fire alarm or suppression systems.

F. Combustible scrap, trash, and debris shall be removed from the project site on a daily basis, or, more frequently as required.

G. Contractor shall not tape back door lock/latch mechanisms nor prop open any door, security door, stairwell door, or fire / smoke door. Lock cores shall not be removed. Coordinate changing lock cores to the designated construction core lock with your MD Anderson representative.

H. Flammable products shall be limited to one day's supply inside the building. Flammable products shall be stored outside the building or in approved UL Rated flammable storage cabinets. Flammable liquids shall be in approved safety cans or cans designed for their use.

I. No internal combustion engines or portable propane heating devices are allowed in any Institutional buildings unless approved by the Owner. Coordination of how gasoline will be transported through buildings and stairwells must be coordinated with your MD Anderson representative.

J. Absolutely no gasoline will be allowed inside MD Anderson owned buildings. For temporary use outdoors, only approved metal safety cans will be permitted.

K. Compressed flammable gas cylinders (i.e. acetylene) shall not remain inside the building overnight and must be removed from the premises at the conclusion of each workday. Oxygen cylinders must also be removed from the premises at the end of each workday. Gas bottles are not allowed to be stored in areas that are used as contractor offices.

L. The contractor shall also have the Safety Data Sheets (SDS) for each gas used available within 15 minutes when requested.

M. Compressed flammable gas cylinders, while on the project site, shall be secured by chain or other suitable method to prevent tipping or falling over. All safety caps shall be securely installed when tanks are not in use.

N. When working in the ceiling space or on rated fire/smoke rated walls and structures, all holes and penetrations for wires, conduits, piping, etc. shall be sleeved and sealed with a UL approved fire caulking / sealing compound at the end of each workday (except when UL listed assembly does not require a sleeve). Any holes that must remain overnight must be sealed with an equivalent temporary fire proofing material as approved by the MD Anderson representative.

O. Work on fire sprinkler and detection systems shall continue until the system operation is fully restored. No impairments will be allowed to extend beyond approved periods of time or during times when the site is unattended.

P. Shutdown of any fire suppression or detection systems/devices shall be coordinated through the Owner’s designated representative. Unauthorized shutdown or disabling of life safety systems shall be grounds for immediate removal from the jobsite.

Q. All Contractors are required to supply and maintain a minimum of one currently tagged ABC fire extinguisher, 10 pound (Class 2-A) or greater. The use of a MD Anderson owned fire extinguisher will not be permitted. Requirements are as follows:

   1. Indoors - Within 100 feet of any Class-A hazard, within 25 feet of any hot work and one for every 3000 square feet of floor space.

   2. Outdoors – between 25 - 50 feet of any hot work.
R. All Contractor employees shall be trained on the proper use and handing of fire extinguishers.

S. If a project involves multiple locations on a single floor or on multiple floors, additional multi-purpose fire extinguishers are required. Hot work permit requires fire watch personnel on floors above and below.

T. The Owner may require additional extinguishers as dictated by the risk of each project or project area.

3.15 FIRE REPORTING AND EVACUATION PLAN

A. Contractor shall establish a designated emergency evacuation assembly area for all projects prior to starting work. Contractor shall train all employees on assembly area locations and how to get to each area.

B. For areas that do not allow a clear view of egress route, the contractor must post easy to understand maps, that are clearly visible to all workers and visitors, of the proper exit paths as required by OSHA and NFPA.

C. In the event of a fire alarm, all work is to stop, all sources of ignition or hazardous work shall be immediately halted and all personnel are to proceed to the door of the construction site and wait for further instructions.

D. In the event of a smoke, fire, or emergency incident the following procedures should be followed:

1. RACE – Rescue, Alarm, Confine, Evacuate/Extinguish
   a. Rescue: rescue Patients, Visitors, Employees
   b. Alarm: a fire alarm pull station should be activated as quickly as possible or call 911.
   c. Confine: confine the fire or smoke by closing all doors to the area.
   d. Evacuate/Extinguish: extinguish the fire after you have performed the above operations but only if you can do it safely.

E. When reporting a fire by phone:

1. The caller should provide their name, the location of the fire, and a brief description of the incident. The caller should not hang up until emergency services personnel instruct them to do so.

2. The caller should be prepared to guide the Fire Alarm Response Team and Emergency Responders to the fire location.

F. All contractor personnel shall report to their designated assembly area immediately. Contractor must coordinate the designated assembly area with their MD Anderson representative prior to the beginning of the project.

3.16 GENERAL SITE CONDITIONS – LIFE SAFETY

A. Contractors will comply with all OSHA and NFPA life safety requirements as related to emergency exiting and lighting for construction areas.

B. For areas that do not allow a clear view of egress route, the Contractor must post easy to understand maps, that are clearly visible to all workers and visitors, of the proper exit paths as required by OSHA and NFPA. Contractor should coordinate the creation of these maps with their MD Anderson representative.
C. Contractors are required to maintain any required temporary signs directing to exit routes. These signs shall be externally or internally illuminated by lighting that is either on emergency power or of the luminescent “glow-in-the-dark” type.

D. All temporary lighting and bulb protective devices shall be maintained and in good working condition. Wiring for temporary lighting shall be removed at the conclusion of the project scope.

E. All emergency exit doors must be maintained and in good working order. Paths to exits must remain clear at all times.

F. Depending on the size of the project site and number of contractors working in the site, a contractor may be required to maintain at least two clearly marked exits per NFPA 101 and NFPA 241 requirements.

G. All exits must be clearly marked with the words “EXIT” or “EMERGENCY EXIT”. Doors that the contractor does not want to use for daily access may be marked with the words “EMERGENCY EXIT ONLY”.

H. All entry doors/gates to the project site shall be locked utilizing a green construction core in the lockset. Due to life safety requirements, chains and/or pad locks will not be permitted on any door. Contact your M.D. Anderson representative for the proper lock cores and keys.

I. If a combination key pad is installed on a jobsite, the door must also be equipped with a green construction core to ensure emergency personnel maintain access to the site. Key pads without a construction core will not be permitted. Contractor must also ensure that the combination to the key pad is not posted on the wall or door of the site. If this occurs, the combination must be changed immediately.

3.17 HAZARD COMMUNICATION (HAZCOM)

A. The Contractor shall provide training and maintain documentation that their personnel and Subcontractors have received proper training in Hazard Communications under the provisions of OSHA’s requirements in 29 CFR 1910.1200 and/or 1926.59.

B. A printed, legible copy of the Safety Data Sheet (SDS) shall be made available within 15 minutes of a request for each chemical used on the job site.

3.18 HAZARDOUS WASTE AND WORK IN HAZARDOUS LOCATIONS

A. Owner chemical, biological or radioactive materials (hazardous substances and equipment) must be moved or secured prior to beginning work in any area. Contractor shall coordinate the removal of these items with their MD Anderson representative.

B. The Contractor’s MD Anderson representative will coordinate any pre-site assessments with EHSCS, the laboratory principle investigator, clinic representative or laboratory manager to prevent disturbing experiments/animals or creating accidents.

C. All contractors must have permission from their MD Anderson representative and the laboratory manager or clinic representative before entering laboratory or hospital clinical work areas.

D. Disposal of all hazardous wastes generated by contractor activities is the responsibility of the contractor. All wastes must be removed from the premises.

E. Absolutely no chemicals, trash, paint, paint brush rinse, shop vacuum contents, excess materials, sand, dirt, etc. may be disposed of in storm sewers/drains or sanitary drains.

F. Contractor must prevent dirt from entering exterior storm drains by adding appropriate silt protection screen material to all exterior drains that may be impacted by the project.
G. Contractor must follow all requirements set forth in the Storm Water Pollution Prevention Plan (SWPPP) as indicated in the appropriate Project Specification (Section 01 57 23). Consult the EHSCS Office (713-792-2888) for questions regarding environmental permitting and plans.

H. All hazardous waste, fuel, oils, and chemicals stored outdoors must have adequate secondary containment to prevent discharge onto the ground or in storm or sanitary sewer drains. All containers must be stored to prevent theft or unauthorized access. All containers outdoors must also be protected from weather elements and secured from public access.

I. Contractor shall ensure that adequate spill protection equipment and supplies are readily available during all equipment refueling activities.

3.19 HOT WORK PERMITS

A. A valid and signed Hot Work Permit must be obtained anytime work being implemented involves the use of any incendiary or heating devices such as:

1. Electric Arc Welding
2. Oxygen Acetylene Welding
3. Tig/Mig Welding
4. Cutting/Soldering
5. Propane Torch
6. High Heat Producing Sources
7. Spark Producing Activities
8. Gasoline, diesel, or propane powered equipment used indoors, on roof surfaces, or within distances that could pose a threat of fire to facilities.

B. Determination of Contractor Hot Work Permit Process or UTMDACC Hot Work Process to be used made prior to beginning of project work.

C. All Smithville/Bastrop hot work applicants must go to Research and Administrative Facilities (RAF) office and fill out a blank Hot Work Permit. Instructions on how to properly fill out the permit are available.

D. Permits to work on ANY medical gas systems must be obtained from the Facilities Department responsible for that area prior to work.

E. Hot Work Permits shall be approved on and for the day of work and posted in the vicinity of any burning or welding operations that are to be completed inside or near a building or enclosure. Permits are issued for day of work only.

F. Hot work applicants must call 713-563-5000 to obtain the appropriate facility representative to issue a hot work permit for the facility in which they are working.

G. Responsibilities:

1. It is the responsibility of the contractor, vendor, and/or MD Anderson workforce members to read, understand, and acknowledge sections I, II, and III of the Hot Work Permit.

2. It is the responsibility of the facilities representative to complete Section IV and sign on the day of work.
3. Contractors are responsible for ensuring all of their authorized and affected employees are trained on the significance of welding, cutting, and brazing procedures in accordance with OSHA regulations 29 CFR 1910.252 - 1910.255.

4. At the end of any cutting operation or at the end of the day, all fuel gas cylinders must be removed from the facility. Fuel gas cylinders WILL NOT be allowed to remain in the facility overnight.

5. Anti-flashback arrestors shall be installed at the base of all Oxy-Acetylene cutting torches or at the pressure regulator gauges where the hoses are attached, unless the torch is equipped with a built-in arrestor. Only friction strikers shall be used to light and re-light Oxy-Acetylene torches.

6. Fire watch personnel shall be posted at every operation that produces sparks, flames or sufficient heat to create an ignition. Upon request for a hot work permit, fire watch personnel shall provide verification of successful Fire Watch training by the Houston Area Safety Council (HASC) or similar entity. Failure to provide current documentation will result in a denial of the hot work permit. Additional fire watch personnel shall be posted in all areas in which hot work sparks, slag, heat, etc. go beyond the sight of the primary fire watch.

7. Except in a fabrication shop or in front of a properly guarded grinding wheel, the person performing the work may not act as a fire watch personnel. When sparks, slag, or fire may fall to a different level, separate fire watch personnel shall monitor each level directly below the work (including exterior locations).

8. Heaters for welding electrodes shall have a manufacturer's label that certifies the purpose of the unit. Job-built heaters shall be prohibited.

9. The remains of welding electrodes shall be picked up and disposed of as soon as each electrode is expended. No welding electrode shall be permitted to fall and remain in the work area.

10. All temporary fabrication areas shall be approved by the facilities representative prior to starting work.

3.20 HURRICANE / SEVERE WEATHER PLANS FOR CONSTRUCTION SITES

A. Construction sites may be required to have a Hurricane/Severe Weather Plan special to that site. Consult with your MD Anderson representative for applicability, as some departments may require this plan for small projects.

B. A copy of the Hurricane/Severe Weather Plan must be submitted to your respective MD Anderson representative prior to starting work.

C. The Texas Medical Center (TMC) Emergency Preparedness Office or Campus Director (Smithville/Bastrop) will issue warning levels in the event of possible flooding or hurricanes. Contractors are urged to learn more about the TMC warning system by contacting their MD Anderson representatives.

3.21 IDENTIFICATION (ID) BADGES

A. It is the policy of The University of Texas MD Anderson Cancer Center to issue an identification (ID) badge to each employee and to all temporary agency and contractor personnel.

B. All badge requests must be processed by the MD Anderson department (i.e., PCPF, RAF, FPDC, etc.) that is issuing the contract for work.
C. ID badges must be worn at all times in a highly visible manner while on property owned or under the control of the Institution.

D. Contractors are responsible for returning any badges for personnel that will no longer be providing services to the institution within one week after termination or conclusion of project.

E. The badge must be clearly visible to someone facing the wearer.

F. A fee may be required to replace a lost contractor badge. Lost identification badges that have programmed electronic access must be reported to the contracting department representative (i.e. Project Manager) immediately.

G. Personnel not wearing proper identification may be subject to immediate removal from the jobsite.

3.22 INTERIM LIFE SAFETY MEASURES (ILSM) GUIDELINE


B. All Contractors are required to abide by any ILSM requirements that may be implemented by the owner due to a temporary deficiency/hazardous condition and must be continuously enforced through project completion or until the deficiency is corrected. Each contractor shall be responsible for ensuring all personnel on site are aware of the Interim Life Safety Measures implemented.

C. Contractors may be required to keep daily logs of the condition of their jobsites.

3.23 LADDER SAFETY

A. Ladders must be inspected prior to each use. Defective ladders shall be immediately removed from service and removed from the job site.

B. Ladders shall be used only in accordance with the manufacturer’s labeled instructions.

C. Stepladders shall be used only in the fully open position with spreaders locked in place. Using a folded stepladder leaned against a support is prohibited.

D. Employees shall not stand on the top platform, the step below the top platform or the back stretchers.

E. Do not sit on, or straddle the top platform.

F. Stepladders shall not be used for access to platforms or other elevated areas – an extension ladder is required.

G. Extension ladders must be properly positioned and locked in place.

H. Extension ladders used for access to elevated areas shall extend at least three feet beyond the supporting structure.

I. Extension ladders must be secured to the supporting structure or be held at the base by another employee.

J. Job built ladders shall conform to applicable ANSI Standards AND shall be limited to use in excavations or concrete form work only. These types of ladders must be inspected daily.
K. At the end of each workday, remove and store, or secure from use all portable and job-built ladders that provide ground access to any elevated platform or structure so as to prevent unauthorized access.

L. Chaining ladders to equipment or mechanical, electrical, or plumbing fixtures or piping is prohibited. Ladders must be stored in a manner to prevent blocked fire exits or escape routes. Ladders must not block access to equipment or facilities.

M. Portable stepladders and extension ladders shall be rated class I-A.

N. Ladders that have multiple sections that can be manipulated to form multiple surfaces and angles are not allowed.

O. Aluminum ladders are prohibited.

P. All exceptions to these requirements must be approved by MD Anderson EHSCS department.

3.24 LOCK OUT / TAG OUT

A. It is the policy of The University of Texas MD Anderson Cancer Center that its employees and contractors are protected from all energy sources during maintenance and repair activities.

B. Each facility has a Lock Out/Tag Out program. Contractors whose work will involve the Lock Out/Tag Out process shall comply with the provisions of the respective facilities management program and procedures. If there is a difference between the contractor's program and the institution's program, the more stringent procedure shall prevail.

C. Lock Out/Tag Out procedures may be specific to each type of equipment or device. Consult with the facility maintenance department for specific procedures.

D. Contractors are responsible for ensuring all of their authorized and affected employees are trained on the significance of Lock Out/Tag Out procedures in accordance with 29 CFR 1910.147 and must follow these requirements.

E. Only the authorized employee or contractor who applied a device is allowed to remove his/her lock out or tag out device from each energy-isolating device so energy can be restored to the equipment. MD Anderson personnel may add locks or tags to tagged-out devices – contractors are not allowed to remove these locks or tags.

F. Never remove another person's tag/lock. Unauthorized removal of tags/locks will be grounds for immediate and permanent removal from the jobsite.

G. If tags/locks remain on equipment, contact the appropriate personnel or department for resolution to the removal process.

3.25 MAINTAINING INDOOR AIR QUALITY (IAQ) DURING CONSTRUCTION AND RENOVATION ACTIVITIES

A. It is critical to our patient's health that proper controls are in place to ensure indoor air quality is maintained during construction and renovation activities. These activities disturb existing dust and/or create new dust, which causes the release of Aspergillus and other mold spores into the air. These spores can result in serious complications, and potentially death, for immuno-compromised individuals.

B. The guideline covers all contractors involved in building maintenance, construction, renovation and/or repair and applies to all areas of the Institution.
C. An Indoor Air Quality (IAQ) Permit may be required for every project, no matter the duration. The permit explains the requirements needed to maintain the best possible air quality outside the work site.

D. This permit shall be posted at the site and shall remain posted until the completion of the project.

E. EHSCS will perform periodic inspections, verifying that the proper controls are in place and will periodically monitor sites with instruments used to measure applicable indoor air quality (IAQ) parameters.

F. Contractor must follow the requirements of the Indoor Air Quality Permit and the Maintaining Indoor Air Quality During Construction and Renovation Policy.

G. See Attachment A for the “Maintaining Indoor Air Quality During Construction and Renovation Policy” for the requirements that must be followed for each project. This policy is a guide to the minimum protective measures that are to be in place prior to start of all projects.

3.26 PERSONAL PROTECTIVE EQUIPMENT (PPE)

A. The minimum OSHA requirements for Personal Protective Equipment (PPE) shall be required of ALL persons on the project site. Each contractor/subcontractor shall provide their workers with all required PPE. The contractor is responsible to ensure that PPE is inspected and maintained in proper condition.

B. Safety Hard Hats: When required, every person in the project shall wear a hard hat that meets the minimum OSHA requirements.

C. When required, hardhats are to be worn and maintained in accordance with the manufacturer’s recommendations. “Cowboy” style hard hats shall not be allowed, including ANSI approved hats. Hard hats that display noticeable wear or damage shall be replaced or repaired per manufacturer’s specifications.

D. Eye Protection: When required, every person on the project shall wear eye protection. Additional face protection may be required when work operations create airborne particles, chips, or sparks. Eye protection and face protection shall meet the minimum OSHA requirements.

E. Shoes: when required, every worker on the project shall wear shoes that have soles with a resistance to punctures, leather or leather equivalent uppers that cover the entire foot and ankle and offer resistance to scrapes and cuts. Sandals, open-toed shoes, dress loafers, high-heels, fabric shoes and all athletic style shoes (including those with ANSI markings) are prohibited.

F. When required, exterior toe and metatarsal cover shall be used when activities involve impact exposures to the feet (ie; jackhammering, water blasting, concrete demolition etc), unless the shoe has this protection built into the footwear.

G. Clothing: when required, sleeve length shall cover the ball of the shoulder. Shirts shall not have noticeable holes, be long enough to be tucked into pants and be free of profanity, objectionable, or obscene messages. Pants shall be full length and without excessive holes.

H. Hearing Protection: when required, employees shall be provided with hearing protection against the effects of noise exposures from machines, equipment or surrounding operations generating sound levels that exceed OSHA hearing protection requirements. Employees required to use hearing protection shall be tested and trained in the use and limitations of such protection.

I. Hand Protection: when required, employees handling materials or equipment with potential hand injury hazards shall be provided with appropriate hand protection.
J. Harnesses, Lifelines, and Lanyards: when required, employees working in areas where there is an exposure to falls of heights greater than six (6) feet, regardless of work activities (i.e. steel erection, leading edge work, scaffold use, and brick masonry) shall be protected by measures that comply with the ANSI/ASSE Z359 Fall Protection Standard.

K. Respiratory Protection: when required, employees shall be provided with respirators when it is necessary to protect them from inhalation of toxic or harmful gases, vapors, mists, fumes, and dust.

L. When required, employees required to use respiratory protective equipment shall be medically qualified and thoroughly trained in the use and limitations of such equipment. Employer must demonstrate compliance with OSHA 29 CFR 1910.134.

M. Other PPE: when required, employees working in areas where there is a possible danger to other parts of the body not listed above shall be protected by the appropriate PPE for that body part.

3.27 ROOF WORK

A. All roof work must be approved by the Research and Administrative Facilities (RAF) - Chief Engineer at the campus you are working at prior to project start.

B. All roof access to T. Boone Pickens Tower must be approved prior to access. This area contains multiple radio transmitters and receivers that emit harmful radio and microwaves. All personnel accessing this area must have attended the required training. Contact the building owner for training requirements.

C. Contractor is responsible for ensuring that they are able to immediately contact emergency forces during an emergency event by providing cell phones, radios, or access to working phones within MD Anderson facilities. Contractor shall ensure personnel working on the jobsite know the address of the building.

D. Any roof repairs that are performed around fresh air intakes shall be scheduled with the respective facilities operations group prior to any planned work. Contractor is required to provide fume control devices when performing roof repair, replacement, or installation to prevent odors from being transmitted inside the facility.

E. Some areas of roofs may be restricted due to potentially hazardous exhaust from laboratories or processes. Contractor must obtain approval from their MD Anderson representative before proceeding with entering any roof areas.

F. Contractors are required to comply with all applicable OSHA and ANSI Fall Protection requirements.

G. Contact Research and Administrative (RAF) Chief Engineer and EHSCS OHS group regarding proper davit use and tie-off areas.

H. All roof work involving heated materials or open flames must have a valid hot work permit.

I. The Contractor shall have a 20 pound ABC Fire Extinguisher on the roof and immediately available for use. Institutional fire extinguishers will not be loaned. Additional extinguishers must be provided as needed.

J. All fire extinguishers must have current annual certification tags and in working order.

K. All open flames must be continuously supervised.
L. A 2-hour fire watch must be provided after any heated materials or open flames have been used during roof work. Fire watch personnel must perform a “touch test” to determine any residual hot spots. A laser thermometer is recommended.

M. All propane bottles must be removed from the premises daily. Do not store propane cylinders in mechanical or roof spaces.

N. All roofing materials shall be secured at the end of each workday to prevent disruption by wind and rain.

3.28 SANITATION AND HOUSEKEEPING

A. Contractors and subcontractors are responsible for ensuring that project sites are effectively cleaned.

B. “Effectively Cleaned” shall address all of the following issues:

1. Place all construction waste, trash, and debris in a designated receptacle. Glass bottles shall not be permitted in the project site. Trash must be removed on a daily basis as to prevent accumulation and attraction for pests. Contractor must have an approved method for removing trash from the jobsite (i.e., dumpsters, trucks, etc.) before starting work.

2. Eating is not allowed on the jobsite. Limited amounts of bottled soft drinks and water will be allowed but must be removed on a daily basis as to prevent attraction of insects or rodents.

3. Contractor may only use PUBLIC restroom facilities assigned by their MD Anderson representative. Contractors may not use staff restrooms.

4. Any waste, trash, and/or debris created by the contractor shall be cleaned (i.e.; sweeping, vacuuming, dust mopping, large debris removal etc.) at the end of the day to prevent accumulation of dirt and combustibles on the jobsite.

5. Contractors are NOT allowed to use sinks or drains to clean materials or paint brushes.

6. All holes and penetrations to the outside of the building must be sealed with an appropriate material as to prevent water, insects and rodents from entering the building.

7. All windows must remain closed unless permission is granted by EHSCS. All windows or penetrations used for ventilation purposes shall be protected from water, insect/rodent, and dust intrusion by use of protective covers and screen wire materials.

8. Stack (or restack) all whole and scrap materials in locations that do not obstruct a clear pathway nor create a risk for toppling onto a person passing by the area.

9. Place all hoses, cords, cables, and wires in locations that prevent them from damage and do not create tripping hazards.

10. Restore all signs, barricades, fire extinguishers, guardrails, gates, etc. to proper locations and condition.

11. Properly store and secure all flammable and combustible liquids and gases in proper containment or flammable storage cabinets.

12. Collect and place all cut-off or waste pieces of rolling stock, as they are created, into waste or scrap containers. No rolling stock shall be permitted to fall and remain in the work area.
13. Used shot strips from powder-actuated tools shall be properly maintained and disposed of in accordance with manufacturer’s recommendations.

14. All puncture and impalement exposures shall be covered or eliminated as soon as they are created. Exposed ends of rebar are to be covered with material that is designed to prevent impalement of a 250-pound body from a fall of four (4) feet.

15. All work surfaces shall be maintained in level and smooth condition as to prevent rolling carts from catching and possibly falling over while in transit. Appropriate temporary fill materials shall be installed as warranted.

16. All wheeled equipment shall have non-marking wheels or tape shall be used over wheels when moving through non-project areas to prevent marking and damage to floor surfaces. Tape should be removed if adequate traction is required to perform a task. Tape can be removed once in job-site area.

17. Contractors shall only use their trash dumpsters or dumpsters designated by their MD Anderson representative.

3.29 SITE POSTINGS

A. Contractor shall securely post the required warning signs (as required by the Owner and OSHA) for the project area(s).

B. All signs must be approved by your MD Anderson representative. Consult your MD Anderson representative regarding facility specific informational signs.

1. Signs that warn of impending danger (i.e., CONSTRUCTION AREA – DO NOT ENTER)

2. Signs that communicate the level of personal protective equipment that is required (i.e., HARD HATS AND SAFETY GLASSES REQUIRED)

3. All necessary permits (i.e., Hot Work Permits, Indoor Air Quality Permit, ILSM and/or other State/Local Regulatory Agency Permits as required by law).

C. These postings must consist of the required color, size, and character size lettering and/or symbols as required by OSHA and/or State/Local regulations.

D. Signs must be made from a sturdy material that resists tearing and fading. Laminated signs are acceptable for indoor postings.

E. All exterior projects must contain the above noted required postings in all locations that warrant these warning signs and postings.

F. A single location such as a plywood project board is acceptable for posting required permits and project information signage. Any required permits should be protected from the elements by covering them in a laminate or waterproof material.

G. Contractor shall install and maintain any additional signs, barricades, warning devices, and traffic warnings.

3.30 SCAFFOLDING

A. All scaffold systems (any temporary elevated platform, supported or suspended) and its supporting structure (including its point of anchorage), used for supporting employees or materials or both) - shall follow the manufacturer instructions and adhere to all applicable OSHA requirements per each type of scaffolding device.
B. Contractor shall be required to receive permission from MD Anderson Facility – Research and Administrative Facilities before erecting any suspension or stationary scaffolding system on roofs or attaching lines to roof davits. Consult with the MD Anderson representative for approval before beginning any work.

C. All ground-supported scaffolds shall bear a safety tag that indicates the safety status of the scaffold. The contractor shall designate a universal project system for tagging scaffolding that is to be used by any or all personnel.

D. Training and documentation shall be required for all workers on the project who will erect, maintain, dismantle, or use the scaffolding. A designated competent person must ensure scaffold use requirements are maintained and inspected at the beginning of each work shift as per OSHA requirements. Contractor shall maintain documentation to support this requirement.

E. Contractor will ensure proper fall protection for employees is required and followed per OSHA requirements when using scaffolding and aerial lift.

F. Mudsills and surrounding areas at the base of ground-supported scaffolds shall be maintained in a well-dressed and level condition. Scaffold feet shall be installed on all legs and the maximum number of diagonal braces shall be included in every scaffold section.

G. Every work level shall be fully planked and toe board shall be included along open sides. Overhead protection shall be constructed where walk-through passages are allowed.

H. Brakes shall be secure at all times on rolling scaffolds, except when being moved. Workers shall not be allowed on the platform when the scaffold is being moved.

I. Rolling scaffolds shall not be used on uneven or unstable surfaces. Wheels shall be non-marking or temporarily covered with tape to prevent damage to floor surfaces when being moved through non-project areas.

ATTACHMENTS

1. ADM0175 Maintaining Indoor Air Quality During Construction and Renovation Activities Policy (refer to attachment for Version #)
2. Construction Risk Assessment Form ATT0321 (refer to attachment for Version #)
Purpose

The purpose of this policy is to provide guidance for maintaining indoor air quality during activities such as Construction, Renovation, Modernization, and Structural Repair Activities, particularly to prevent Aspergillus and other potentially pathogenic fungal (mold) spores from being generated or released into the air. These spores can result in serious complications and potentially death for immunocompromised individuals.

Policy Statement

It is the policy of The University of Texas MD Anderson Cancer Center (MD Anderson) to manage all Construction, Renovation, Modernization, and Structural Repair Activities in a manner designed to minimize the potential for fungal infections due to degraded air quality or environmental contamination. This policy applies to all buildings owned, operated, and controlled by MD Anderson.

Scope

Compliance with this policy is the responsibility of all faculty, trainees/students, and other members of MD Anderson’s workforce.

Target Audience

The target audience for this policy includes, but is not limited to, all faculty, trainees/students, and other members of MD Anderson’s workforce involved in Construction, Renovation, Modernization, and Structural Repair Activities.

Definitions

Bioaerosols: Microscopic live particulates such as fungal spores, pollen, bacteria, and viruses.

Construction, Renovation, Modernization, and Structural Repair Activities: Activities that disturb existing building features which can cause or create the release of potentially harmful dusts or Bioaerosols.

Designee: Person(s) appropriately trained and able to demonstrate competency in assessing and determining appropriate infection control requirements.

HEPA Filter: High-Efficiency Particulate Air (HEPA) filter. This device is used to maintain compliant indoor air quality by filtering 99.99% of particulates in the work area.

Infection Control Risk Assessment (ICRA): A risk assessment tool used to determine the minimum level of controls used during a project to control potentially harmful dusts and Bioaerosols.

Procedure

1.0 Responsibility

1.1 It is the responsibility of all faculty, trainees/students, and other members of MD Anderson's workforce, as well as MD Anderson contractors and vendors, to abide by the requirements of this policy to maintain safe patient care, research, and administrative work environments during Construction, Renovation, Modernization, and Structural Repair Activities. Corrective actions shall be taken immediately by the construction team, whether externally or internally controlled, when deficiencies are discovered.

1.2 Environmental Health & Safety, Sustainability and Emergency Management (EHSSEM), Infection Control, or their Designee may perform periodic inspections of Construction, Renovation, Modernization, and Structural Repair Activities work sites to monitor compliance with this policy.

1.3 Air sampling strategies for the majority of projects consists of EHSSEM - Construction Safety performing air particulate baseline measurements and periodic monitoring, and EHSSEM - Occupational Health & Safety performing commissioning air clearance sampling in accordance with EHSSEM air sampling protocol agreement with Infection Control. If evaluation of the PCRA, as described in Section 2.2, reveals a more complex project or need for a different sampling strategy, EHSSEM - Construction Safety will contact EHSSEM - Occupational Health & Safety for direction.

2.0 Performance Requirements

2.1 Construction, Renovation, Modernization, and Structural Repair Activities that disturb existing building features, possibly causing or creating the release of potentially harmful dusts or Bioaerosols, must be conducted in accordance with the required precautions listed in Section 3.0.

2.2 Prior to beginning Construction, Renovation, Modernization, and Structural Repair Activities, a Facilities Planning Design and Construction (FPDC) Project Manager submits a PCRA to EHSSEM.

2.3 The project contractor shall assign personnel the duties and equipment at all times while working on site for the purpose of containment, control, or clean-up of dust and particulates in and around the work area, as per Section 01 35 25, Part 3.25, “Maintaining Indoor Air Quality (IAQ) During Construction and Renovation Activities”, of the Master Construction Specifications. Equipment may include dust mops, wet mops, adhesive walk-off (tacky) mats, mop buckets, HEPA filtered vacuums, and clean rags for removing fine dust inside and outside the site and from equipment. (See Section 01 35 25, Part 3.25, “Maintaining Indoor Air Quality (IAQ) During Construction and Renovation Activities”, of the Master Construction Specifications.

2.4 All projects shall comply with Indoor Air Quality requirements outlined in Section 01 35 25, Part 3.25, “Maintaining Indoor Air Quality (IAQ) During Construction and Renovation Activities”, of the Master Construction Specifications.

2.5 Any activities that have disturbed or will disturb mold, the assigned FPDC PM or EHSSEM FLSPM shall contact the Occupational Health and Safety group, as well as Infection Control (713-792-3655 or page 713-404-2808).

3.0 Infection Control Risk Assessment Matrix

Use the Project Infection Control Risk Assessment Matrix (Attachment #ATT0321) to determine the appropriate precautions that must be used.
4.0 Exceptions

Any exception to this established policy is at the discretion of the Institutional Safety Committee. Procedural exceptions may be granted through EHSSEM or Infection Control.
Attachments/Links

Project Infection Control Risk Assessment Matrix (Attachment #ATT0321)

Related Policies

None.

Joint Commission Standards / National Patient Safety Goals

EC.02.08.05:
The hospital manages its environment during demolition, renovation, or new construction to reduce risk to those in the organization. Comprehensive Accreditation Manual for Hospitals (CAMH), 2021.

Other Related Accreditation / Regulatory Standards

Centers for Disease Control and Prevention, Guidelines for Environmental Infection Control in Health Care Facilities.


References

None.
# Project Infection Control Risk Assessment

Step 1: Determine the Risk Area in which the work will be performed (Table A)
Step 2: Determine the Activity Type (Table B)
Step 3: Based on the Risk Area, and Activity Type, determine the Class of the precautions (Table B)
Step 4: Implement the appropriate precautions as required in Table C

## Table A

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<td>Common Areas and Corridors where Patients congregate or pass through</td>
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<tr>
<td>Pharmacy</td>
</tr>
<tr>
<td>Cafeteria &amp; Kitchens</td>
</tr>
<tr>
<td>Research Laboratories</td>
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<tr>
<td>Laboratory Medicine</td>
</tr>
<tr>
<td>Laboratories involved with production of products for patient infusion</td>
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<tr>
<td>Rehabilitation Therapy Areas</td>
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<tr>
<td>Diagnostic Laboratories</td>
</tr>
<tr>
<td>Patient Waiting Areas</td>
</tr>
<tr>
<td>All Outpatient Clinics</td>
</tr>
<tr>
<td>Place of Wellness</td>
</tr>
<tr>
<td>Office Space that impacts or is contained within high risk areas</td>
</tr>
<tr>
<td>Radiation Oncology</td>
</tr>
<tr>
<td>Sterile Animal Areas</td>
</tr>
<tr>
<td>Animal Operating Rooms</td>
</tr>
<tr>
<td>Animal Housing Rooms</td>
</tr>
<tr>
<td>Blood Draw/Donation Rooms</td>
</tr>
<tr>
<td>Other locations that impact high risk areas (plenum spaces, unsealed interstitial floors, mechanical chases, etc.) that would allow dusts/debris to enter these high risk areas.</td>
</tr>
<tr>
<td>Activity Types:</td>
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<tr>
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<tr>
<td>Small/Minor: (as appropriate)</td>
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<tr>
<td>Inspections above ceiling that create minimal to no dust.</td>
</tr>
<tr>
<td>Painting</td>
</tr>
<tr>
<td>Minor drywall repair</td>
</tr>
<tr>
<td>Minor electrical work</td>
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<tr>
<td>Lighting and fixtures</td>
</tr>
<tr>
<td>Plumbing that does not create dust or similar work with little or no drilling, cutting, or other dust-creating activity</td>
</tr>
<tr>
<td>Openings into chases and concealed spaces</td>
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<tr>
<td>Non-dust producing maintenance activities</td>
</tr>
<tr>
<td>Minor wet drywall sanding</td>
</tr>
<tr>
<td>Floor covering removal/replacement that does not generate dust or small areas (50 sq ft) that generate dust</td>
</tr>
<tr>
<td>Pulling wires (if using HEPA cart or wire-pulling ceiling tile devices to minimize openings.</td>
</tr>
<tr>
<td>Cabinetry work that does not generate dust</td>
</tr>
<tr>
<td>Large/Major Scale Projects: (as appropriate)</td>
</tr>
<tr>
<td>Removing floor covering (greater than 50 sq ft) which creates dust</td>
</tr>
<tr>
<td>Any mold, asbestos or hazardous material remediation/abatement</td>
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<tr>
<td>Dry sanding</td>
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<tr>
<td>Wall demolition and construction</td>
</tr>
<tr>
<td>Duct work repair and construction</td>
</tr>
<tr>
<td>Major ceiling work</td>
</tr>
<tr>
<td>Work on HVAC systems that could potentially release dust</td>
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<tr>
<td>Large-scale demolition and build back</td>
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<tr>
<td>Large or invasive equipment repair or replacement</td>
</tr>
<tr>
<td>Extensive entry and/or work in building chases that could impact high-risk areas</td>
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<tr>
<td>Class I</td>
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<td>10.</td>
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<tr>
<td>CLASS II</td>
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<tr>
<td>------------------</td>
</tr>
<tr>
<td>1. All activities from Class I</td>
</tr>
<tr>
<td>2. Water mist work surfaces to control dust while cutting.</td>
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<tr>
<td>3. Seal unused doors with non-marking painters' tape (follow ILSM protocols to prevent blocking required exits).</td>
</tr>
<tr>
<td>4. Remove or isolate HVAC systems in areas where work is being performed to prevent contamination of duct system by blocking off and seal air vents.</td>
</tr>
<tr>
<td>5. Provide 3-5/8&quot; stud wall with 5/8&quot; type x drywall, full height on both sides. Tape joints on the occupied side at non-fire rated partition. Tape both sides full height at fire rated partition. Fill partition cavity with sound-deadening insulation (reference specification 01 16 1 09 C1) or provide STARC system panels or equivalent that are constructed deck to deck or turned horizontal to form a barrier that is deck to deck. A one (1) hour fire rated barrier shall be required where the fire sprinkler system has been removed.</td>
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<tr>
<td>6. Maintain negative pressure within work site utilizing HEPA equipped filtration units.</td>
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<td>7. Use HEPA carts when working outside project area.</td>
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<tr>
<td>8. Install visual air flow indicator (Ball-In-The-Wall) or other approved visual airflow indicator.</td>
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<tr>
<td>9. Seal all holes, pipes and penetrations prior to construction.</td>
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<tr>
<td>10. Construct anteroom from STARC system panels or equivalent and require all personnel to pass through this room so they can vacuum themselves and their tools prior to exiting. Or they can wear disposable coveralls that are removed each time they leave the work site.</td>
</tr>
<tr>
<td>11. Shoe covers will be required to prevent tracking dusts and dirt from jobsite. Shoe covers must be changed each time the worker exits the work area.</td>
</tr>
<tr>
<td>12. Use only assigned elevators and access routes approved by PPDC Project Manager or Infection Control during the risk assessment.</td>
</tr>
<tr>
<td>13. Use only assigned restroom facilities approved by PPDC Project Manager.</td>
</tr>
<tr>
<td>14. Contact EHSSEM prior to beginning work to determine applicability of bioaerosol air sampling. Allow a minimum of five (5) days for results. Do not remove barriers until instructed to do so by EHSSEM.</td>
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<tr>
<td>15. Other controls determined by EHSSEM or Infection Control.</td>
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| END OF SECTION 01 35 25 |

The University of Texas
MD Anderson Cancer Center
MS20220211

OWNER SAFETY REQUIREMENTS
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<td>Added as JPG image UT MD Anderson Policy ADM0175 Maintaining Indoor Air Quality During Construction and Renovation – publish date 6/10/2021 Version #: 29.0 AND Added as JPG image UT MD Anderson Policy ATT0321 Project Infection Control Risk Assessment – publish date 08-11-2021 Version #: 7.0</td>
<td>Bryan Galloy, Paul Vezorak, Richard Fitzgerald</td>
<td>Bryan Galloy</td>
<td>Richard Fitzgerald</td>
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